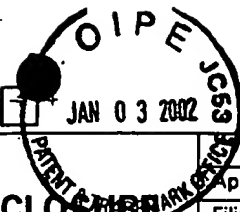


Please type a plus sign (+) inside this box



|   |                        |                          |                       |
|---|------------------------|--------------------------|-----------------------|
| Substitute for Form PTO-1449  |                        | <b>Complete if known</b> |                       |
| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |                        | Application Number       | 09/771,015            |
|   |                        | Filing Date              | January 26, 2001      |
|   |                        | First Named Inventor     | Eric K. Wilson et al. |
|   |                        | Group Art Unit           | Not Assigned          |
|   |                        | Examiner Name            | Not Assigned          |
| Sheet 1 of 4  | Attorney Docket Number | 23600.00101              |                       |

| U.S. PATENT DOCUMENTS |                       |                      |                                   |   |  |   |
|-----------------------|-----------------------|----------------------|-----------------------------------|---|--|---|
| Examiner Initials     | Cite No. <sup>1</sup> | U.S. Patent Document |                                   | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number               | Kind Code <sup>2</sup> (if known) |   |  |   |
| SP                    | A1                    | 4,010,465            |                                   | Dodington, et al                                | 03/01/1977                                       |   |
| SP                    | A2                    | 4,099,121            |                                   | Fang  | 07/04/1978                                       |   |
| SP                    | A3                    | 4,385,384            |                                   | Rosbury et al.                                  | 05/24/1983                                       |   |
|                       | A4                    | 5,052,024            |                                   | Moran, III et al.                               | 09/24/1991                                       |   |
|                       | A5                    | 5,272,700            |                                   | Hansen et al.                                   | 12/21/1993                                       |   |
|                       | A6                    | 5,311,550            |                                   | Fouche, et al                                   | 05/10/1994                                       |   |
|                       | A7                    | 5,377,035            |                                   | Wang et al.                                     | 12/27/1994                                       |   |
|                       | A8                    | 5,408,349            |                                   | Tsushima et al.                                 | 04/18/1995                                       |   |
|                       | A9                    | 5,471,645            |                                   | Felix   | 11/28/1995                                       |   |
|                       | A10                   | 5,481,542            |                                   | Logston et al.                                  | 01/02/1996                                       |   |
|                       | A11                   | 5,481,561            |                                   | Fang  | 01/02/1996                                       |   |
| SP                    | A12                   | 5,487,099            |                                   | Maekawa   | 01/23/1996                                       |   |

RECEIVED  
JAN - 4 2002  
Group 2600

| FOREIGN PATENT DOCUMENTS |                       |                         |                     |                                   |   |  |   |
|--------------------------|-----------------------|-------------------------|---------------------|-----------------------------------|---|--|---|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document |                     |                                   | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                          |                       | Office <sup>2</sup>     | Number <sup>2</sup> | Kind Code <sup>2</sup> (if known) |   |  |   |
|                          | B1                    | EP                      | 0021 544 A1         |                                   | Nuhoff  | 01/07/1981                                       |   |
|                          | B2                    | EP                      | 0025 767 A1         |                                   | Gregoire et al.                                 | 03/25/1981                                       | ✓   |
|                          | B3                    | CA                      | 2,187,141           |                                   | Vallee et al.                                   | 04/04/1998                                       |   |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |                       |  |    |
|---|-----------------------|--|----|
| Examiner Initials*                                | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T* |
|   | C1                    | Gelestani, S. (1995) "Network Delay Analysis of a Class of Fair Queueing Algorithms", <i>IEEE Journal on Selected Areas in Communication</i> 13(6):1057-1070   |    |
|   | C2                    | Stiliadis, D. et al. (1998) "Rate-Proportional Servers: A Design Methodology for Fair Queueing Algorithms", <i>IEEE/ACM Transactions of Networking</i> 6(2):164-174  |    |
|   | C3                    | Stiliadis, D. et al. (1998) "Efficient Fair Queueing Algorithms for Packet-Switched Networks", <i>IEEE/ACM Transactions of Networking</i> 6(2):175-185   |    |
|   | C4                    | Data Over Cable Interface Specifications, Cable Modem Termination System-Network Side Interface Specification, SP-CMTS NSH01-960702 (July 2, 1996) pp. i-13  |    |

|                    |  |                 |         |
|--------------------|--|-----------------|---------|
| Examiner Signature |  | Date Considered | 4/22/05 |
|--------------------|--|-----------------|---------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation is not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

12267010.1

Substitute for Form PTO-1449

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 4

Complete if known

|                        |                       |
|------------------------|-----------------------|
| Application Number     | 09/771,015            |
| Filing Date            | January 26, 2001      |
| First Named Inventor   | Eric K. Wilson et al. |
| Group Art Unit         | Not Assigned          |
| Examiner Name          | Not Assigned          |
| Attorney Docket Number | 23600.00101           |

## **U.S. PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | U.S. Patent Document |                                   | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|----------------------|-----------------------------------|---|--|---|
|                    |                       | Number               | Kind Code <sup>2</sup> (if known) |   |  |   |
| sm                 | A13                   | 5,510,859            |                                   | Douglass, et al                                 | 04/23/1996                                       |   |
|                    | A14                   | 5,557,612            |                                   | Bingham   | 09/17/1996                                       |   |
|                    | A15                   | 5,590,409            |                                   | Sawahashi et al.                                | 12/31/1996                                       |   |
|                    | A16                   | 5,596,604            |                                   | Cioffi et al.                                   | 01/21/1997                                       |   |
|                    | A17                   | 5,606,664            |                                   | Brown et al.                                    | 02/25/1997                                       |   |
|                    | A18                   | 5,625,874            |                                   | Uchida et al.                                   | 04/29/1997                                       |   |
|                    | A19                   | 5,634,206            |                                   | Reed et al.                                     | 05/27/1997                                       |   |
|                    | A20                   | 5,666,646            |                                   | McCollum et al.                                 | 09/09/1997                                       |   |
|                    | A21                   | 5,740,525            |                                   | Spears  | 01/14/1998                                       |   |
|                    | A22                   | 5,724,385            |                                   | Levin, et al                                    | 03/03/1998                                       |   |
|                    | A23                   | 5,734,589            |                                   | Kostreski et al.                                | 03/31/1998                                       |   |
|                    | A24                   | 5,752,161            |                                   | Jantti et al.                                   | 05/12/1998                                       |   |
|                    | A25                   | 5,796,783            |                                   | Crawford  | 08/18/1998                                       |   |
| sm                 | A26                   | 5,809,090            |                                   | Buternowsky et al.                              | 09/15/1998                                       |   |

RECEIVED  
JAN 4 2002  
Group 2600

## **FOREIGN PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document |                     |                                   | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T* |
|--------------------|-----------------------|-------------------------|---------------------|-----------------------------------|---|--|---|----|
|                    |                       | Office <sup>3</sup>     | Number <sup>4</sup> | Kind Code <sup>5</sup> (if known) |   |  |   |    |
|                    |                       |                         |                     |                                   |   |  |   |    |

## **OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T* |
|--------------------|-----------------------|--|----|
|                    | C5                    | <del>Data-Over-Cable Service Interface Specifications, Cable Modem to Customer Premise Equipment Interface Specification, SP-CMC1-102-980317 (March 17, 1998) pp. i-40</del>   |    |
|                    | C6                    | <del>Data-Over-Cable Service Interface Specifications, Radio Frequency Interface Specification, SP-RFI-104-980724 (July 24, 1998) pp. i-196</del>  |    |
|                    | O7                    | <del>Data-Over-Cable Service Interface Specifications, Operations Support System Interface Specification SP-OSSI-102-990113 (January 13, 1999) pp. i-14</del>  |    |
|                    | C8                    | <del>Data-Over-Cable Service Interface Specifications, Operations Support System Interface Specification Radio Frequency Interface, SP-OSSI-RFI-103-990113 (January 13, 1999) pp. i-29</del>   |    |

|                    |                   |                 |         |
|--------------------|-------------------|-----------------|---------|
| Examiner Signature | <i>Paul J. Lu</i> | Date Considered | 4/22/05 |
|--------------------|-------------------|-----------------|---------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation is not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. \*Applicant is to place a check mark here if English language translation is attached.

12267010.1

Substitute for Form PTO-1449

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet **3** of **4**

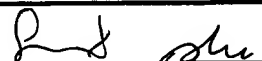
**Complete if known**

|                        |                       |
|------------------------|-----------------------|
| Application Number     | 09/771,015            |
| Filing Date            | January 26, 2001      |
| First Named Inventor   | Eric K. Wilson et al. |
| Group Art Unit         | Not Assigned          |
| Examiner Name          | Not Assigned          |
| Attorney Docket Number | 23600.00101           |

| U.S. PATENT DOCUMENTS |                       |                      |                                   |   |  |   |
|-----------------------|-----------------------|----------------------|-----------------------------------|---|--|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | U.S. Patent Document |                                   | Name of Patentee or Applicant Of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number               | Kind Code <sup>2</sup> (if known) |   |  |   |
| zy                    | A27                   | 5,809,406            |                                   | Taki et al.                                     | 09/15/1998                                       |   |
|                       | A28                   | 5,809,427            |                                   | Perreault et al.                                | 09/15/1998                                       |   |
|                       | A29                   | 5,818,825            |                                   | Corrigan et al.                                 | 10/06/1998                                       |   |
|                       | A30                   | 5,831,690            |                                   | Lyons et al.                                    | 11/03/1998                                       |   |
|                       | A31                   | 5,862,451            |                                   | Grau et al.                                     | 01/19/1999                                       |   |
|                       | A32                   | 5,867,528            |                                   | Verbueken                                       | 02/02/1999                                       |   |
|                       | A33                   | 5,896,414            |                                   | Meyer et al.                                    | 04/20/1999                                       |   |
|                       | A34                   | 5,903,558            |                                   | Jones et al.                                    | 05/11/1999                                       |   |
|                       | A35                   | 5,909,384            |                                   | Tal et al.                                      | 06/01/1999                                       |   |
|                       | A36                   | 5,937,005            |                                   | Obuchi et al.                                   | 08/10/1999                                       |   |
|                       | A37                   | 5,940,743            |                                   | Sunay et al.                                    | 08/17/1999                                       |   |
|                       | A38                   | 5,963,843            |                                   | Sit et al.                                      | 10/05/1999                                       |   |
|                       | A39                   | 5,963,870            |                                   | Chheda et al.                                   | 10/05/1999                                       |   |
|                       | A40                   | 5,974,106            |                                   | Dupont  | 10/26/1999                                       |   |
|                       | A41                   | 5,978,855            |                                   | Metz et al.                                     | 11/02/1999                                       |   |
|                       | A42                   | 5,991,286            |                                   | Labonte et al.                                  | 11/23/1999                                       |   |
|                       | A43                   | 6,009,310            |                                   | Motohashi                                       | 12/28/1999                                       |   |
| zy                    | A44                   | 6,035,008            |                                   | Kim   | 03/07/2000                                       |   |

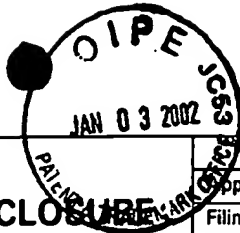
| FOREIGN PATENT DOCUMENTS |                       |                         |                     |                                   |   |  |   |    |
|--------------------------|-----------------------|-------------------------|---------------------|-----------------------------------|---|--|---|----|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document |                     |                                   | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T* |
|                          |                       | Office <sup>3</sup>     | Number <sup>4</sup> | Kind Code <sup>5</sup> (if known) |   |  |   |    |
|                          |                       |                         |                     |                                   |   |  |   |    |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |                       |  |    |
|---|-----------------------|--|----|
| Examiner Initials*                                | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T* |
|   | <del>G9</del>         | <del>Data Over-Cable Service Interface Specifications, Baseline Privacy Interface Specification, SP-BPI-102-990319 (March 19, 1999) pp. i-88</del>   |    |
|   | G10                   | Data Over-Cable Service Interface Specifications, Baseline Privacy Interface Specification, SP-BPI-102-990731 (July 31, 1999) pp. i-160  |    |

|                    |   |                 |         |
|--------------------|---|-----------------|---------|
| Examiner Signature |  | Date Considered | 9/22/05 |
|--------------------|---|-----------------|---------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation is not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. \*Applicant is to place a check mark here if English language translation is attached.



|   |   |                          |                       |                        |             |
|---|---|--------------------------|-----------------------|------------------------|-------------|
| Substitute for Form PTO-1449  |   | <b>Complete if known</b> |                       |                        |             |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |   | Application Number       | 09/771,015            |                        |             |
|   |   | Filing Date              | January 26, 2001      |                        |             |
|   |   | First Named Inventor     | Eric K. Wilson et al. |                        |             |
|   |   | Group Art Unit           | Not Assigned          |                        |             |
|   |   | Examiner Name            | Not Assigned          |                        |             |
| Sheet   | 4 | of                       | 4                     | Attorney Docket Number | 23600.00101 |

| U.S. PATENT DOCUMENTS |                       |                      |                                   |   |  |   |
|-----------------------|-----------------------|----------------------|-----------------------------------|---|--|---|
| Examiner Initials     | Cite No. <sup>1</sup> | U.S. Patent Document |                                   | Name of Patentee or Applicant Of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number               | Kind Code <sup>2</sup> (if known) |   |  |   |
| [Signature]           | A45                   | 6,052,408            |                                   | Trompower et al.                                | 04/18/2000                                       |   |
|                       | A46                   | 6,072,839            |                                   | Mondal et al.                                   | 06/06/2000                                       |   |
|                       | A47                   | 6,075,787            |                                   | Boback et al.                                   | 06/13/2000                                       |   |
|                       | A48                   | 6,111,887            |                                   | Daily et al.                                    | 08/29/2000                                       |   |
|                       | A49                   | 6,112,232            |                                   | Shahar et al.                                   | 08/29/2000                                       |   |
|                       | A50                   | 6,128,588            |                                   | Chacon  | 10/03/2000                                       |   |
|                       | A51                   | 6,140,911            |                                   | Fisher et al.                                   | 10/31/2000                                       |   |
|                       | A52                   | 6,141,356            |                                   | Gorman  | 10/31/2000                                       |   |
|                       | A53                   | 6,157,311            |                                   | Berkovich                                       | 12/05/2000                                       |   |
|                       | A54                   | 6,160,447            |                                   | Huang   | 12/12/2000                                       |   |
|                       | A55                   | 6,172,970 B1         |                                   | Ling et al.                                     | 01/09/2001                                       |   |
|                       | A56                   | 6,185,227            |                                   | Sipola  | 02/06/2001                                       |   |
|                       | A57                   | 6,195,697 B1         |                                   | Bowman-Amuah                                    | 02/27/2001                                       |   |

RECEIVED  
JAN 4 2002  
Group 2600

| FOREIGN PATENT DOCUMENTS |                       |                         |                     |                                   |   |  |   |    |
|--------------------------|-----------------------|-------------------------|---------------------|-----------------------------------|---|--|---|----|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document |                     |                                   | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T* |
|                          |                       | Office <sup>3</sup>     | Number <sup>4</sup> | Kind Code <sup>5</sup> (if known) |   |  |   |    |
|                          |                       |                         |                     |                                   |   |  |   |    |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |                       |  |                |
|---|-----------------------|--|----------------|
| Examiner Initials                                 | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T <sup>1</sup> |
|   | C11                   | <del>Data-Over-Cable Service Interface Specifications, Radio-Frequency Interface Specification, SP-RFiv1.1-103-991105 (November 5, 1999) pp. i-366</del>   |                |
|   | C12                   | <del>Data-Over-Cable Service Interface Specifications, Operations Support System Interface Specification SP-OSSiv1.1-101-991115 (November 15, 1999) pp. i-81</del>   |                |
|   | C13                   | <del>Data-Over-Cable Service Interface Specifications, Operations Support System Interface Specification SP-OSSiv1.1-103-001220 (December 20, 2000) p. ii</del>  |                |

|                    |  |                 |         |
|--------------------|--|-----------------|---------|
| Examiner Signature |  | Date Considered | 4/22/05 |
|--------------------|--|-----------------|---------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation is not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.